	Application No.	Applicant(s)
Notice of Allowability	09/977,351	IKEDA, YOSHINOBU
	Examiner	Art Unit	
	Thomas M. Ho	2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *1/8/2007*.

2. ☒ The allowed claim(s) is/are *21-23, 25, 27-32, 34*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

           International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements
noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF
    INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of
    each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the
    attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date *1/15/2002*
4. ☐ Examiner's Comment Regarding Requirement for Deposit
    of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____ .

DETAILED ACTION

1.   **Claims 21-23, 25, 27-32, 34 are pending.**

Allowable Subject Matter

2.   The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

In reference to claim 21:

Shapiro et al. (Column 2, lines 5-35) & (Figure 1) discloses a second information processing

device for providing a copy of original information to the user and for communicating with a

first information processing device, which connects to a local area network by way of an access

control device for controlling connections with said local area network and Internet, said second

information processing device connecting to said Internet and comprising:

- A memory section for storing a second copy of original information held in said first

  information processing device. Shapiro (Figure 1, "Website Storage") & (Figure 1, other

  memory elements)

Shapiro fails to explicitly disclose:

- A communications unit to acquire a first rewrite information relating to a first copy of original information from another second information processing device connecting to said Internet having said first copy of original information corresponding to said second copy of original information possessed by said memory section,.

- A control unit to make a second information relating to said second copy of original information possessed by said memory section, and comparing said second rewrite information with said acquired first rewrite information.

Krishnamurthy et al. (Figures 2 & 3) and (Column 3, lines 20-25) & (Column 3, line 55 – Column 4, line 20) discloses:

- A communications unit to acquire a first rewrite information relating to a first copy of original information from another second information processing device connecting to said Internet having said first copy of original information corresponding to said second copy of original information possessed by said memory section, where the rewrite information is the validity information to determine if the information is valid, where the copies of the information are the stored server information and the proxy cached version, and where the validity information can take an example form of expiration time information (Column 3, lines 20-25) & (Column 3, line 55 – Column 4, line 20) and where the validity information relates to the cached and original information. Krishnamurthy et al. (Figures 2& 3)

- A control unit to make a second information relating to said second copy of original

  information possessed by said memory section, and comparing said second rewrite

  information with said acquired first rewrite information, where the rewrite information is

  the validity information and where such information is compared and where the transmit

  unit transmits a request for the original information when the information is denoted as

  invalid, indicating the information is different. (Column 3, lines 20-25) & (Column 3,

  line 55 – Column 4, line 20) & Krishnamurthy et al. (Figure 3, Item 303)

Shapiro does disclose that the cache may be refreshed when the HTTP request or web page has a

more recent version. (Column 6, lines 5-12) As previously stated, the second information

processing device is held to be the proxy cache, the first information processing device is held to

be the website server.

Krishnamurthy et al. (Figures 2 & 3) discloses a method wherein said second information

processing device acquires information relating to changes in information held by the first

information processing device and issues said transmit request when changes to said information

have been made, where the transmit request is made (Figure 3, Items 305, 306, 307) when the

cached data is currently held to be invalid. (Figure 2).

Krishnamurthy et al. (Column 2, lines 43-45) teaches that it would be beneficial to provide

stronger cache coherency.

Similarly, Shapiro (Column 6, lines 5-12) teaches changing the expired website data helps to ensure that the most current webpage data is stored in the block [cache] and that the block is not cluttered with infrequently accessed data.

It would have been obvious to one of ordinary skill in the art at the time of invention to apply the cache updating/validation mechanism of Krishnamurthy et al. as the updating mechanism of Shapiro in order to achieve the benefit of cache coherency and to ensure the most current web page data is stored in the block.

However both Shapiro and Krishnamurthy fail to disclose the embodiment wherein the requested original information is transmitted when the second check information and the first check information are not the same.

A search of the prior art has not found this limitation. Additionally no motivation has been found to combine this limitation into the corresponding system of claim 21.

For this reason claim 21 is allowable.

In reference to claim 27:

Shapiro ((Column 2, lines 5-35) & Figure 1) & Krishnamurthy et al. as previously combined

discloses a second information processing device for providing a copy of original information to

the user and for communicating with a first information processing device, which connects to a

local area network by way of an access control device for controlling connections with said local

area network and Internet, said second information processing device connecting to said Internet

and comprising:

- A memory section for storing in advance a copy of original information held in said first

  information processing device; where the cache stores a copy of the website information

  of the webserver or first information processing device (Figure 1, Item 54)

- A communication unit for receiving a connection request from another second

  information processing device connecting to said Internet (Column 2, lines 5-35) &

  (Column 3, lines 24-56)

Shapiro fails to disclose:

- A control section to calculate rewrite information of said acquired information, wherein

  said communication unit sends said calculated rewrite information to said another second

  information processing device.

Krishnamurthy et al. (Column 3, line 15 – Column 4, line 21) discloses:

- A control section to calculate rewrite information of said acquired information, wherein

  said communication unit sends said calculated rewrite information to said another second

information processing device, where the rewrite information is generated for the proxy

data.

However both Shapiro and Krishnamurthy fail to disclose acquiring said original information

from said first information processing device when said copy of original information of the

connection request is not in said memory section, where the request is received from the client

which causes the requested original information to be stored in the proxy cache if it is not in the

memory section.

A search of the prior art has not found this limitation. Additionally no motivation has been

found to combine this limitation into the corresponding system of claim 27.

For this reason claim 27 is allowable.

Claim 30 is allowed for the same reasons as claim 21.

Claims 22-23, 25, 28-29, 31-32, 34 depend on claims 21, 27, or 30 and are allowable because

their independent claims are allowable.

Conclusion

3.   Any inquiry concerning this communication from the examiner should be directed to

Thomas M Ho whose telephone number is (571)272-3835. The examiner can normally be

reached on M-F from 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Gilberto Barron can be reached on **(571)272-3799.**

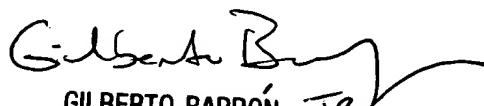The Examiner may also be reached through email through Thomas.Ho6@uspto.gov

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is (571)272-2100.

| General Information/Receptionist | Telephone: 571-272-2100 | Fax: 571-273-8300 |
| Customer Service Representative | Telephone: 571-272-2100 | Fax: 571-273-8300 |

TMH

March 19th, 2007

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